

ELECTRICALLY CONDUCTIVE CONJUGATE FIBER

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- **European:**
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Abstract of JP3249212

PURPOSE: To obtain the subject fiber having excellent electrical conductivity and whiteness by bonding an electrically conductive layer composed of a specific conductive particle and a thermoplastic polymer to a protecting layer composed of a fiber-forming polymer. **CONSTITUTION:** The objective fiber is composed of (A) an electrically conductive layer composed of (a) electrically conductive particles containing an inorganic compound as a nucleus covered with a metallic layer and having a coating layer of an electrically conductive metallic compound on the surface and (b) a thermoplastic polymer (preferably polyolefin, polyamide, polyester, etc., having a crystallinity of $\geq 70\%$) and (B) a protecting layer composed of a fiber-forming polymer and bonded to the layer A. The metallic compound to form the coating film is preferably tin oxide, zinc oxide, indium oxide, copper iodide, etc.

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